

ABSTRACT OF THE DISCLOSURE

A process for preparing a fiber reinforced polymeric foam composite includes introducing a foamable mixture into a low binder expandable fiber mat and then expanding the foamable mixture into a polymeric foam between top and bottom facing sheets such that 5 the fibers of the low binder fiber mat become dispersed within the polymeric foam, wherein the low binder fiber mat is part of a composite web that further comprises a support web. Such a composite web is particularly useful for preparing reinforced polymeric foam composites that contain a fiber reinforced polymeric foam having a thickness of greater than two inches (5.08 centimeters) and fibers substantially distributed therein.